

ABSTRACT

A process, comprising: a) reacting a an alkoxy silane, an (epoxy)alkoxy silane, and a fluorinated alkoxy silane to form a fluorinated sol-gel polymer; and b) reacting a nonlinear optical chromophore comprising a donor, a π -bridge, an acceptor, and at least one alkoxy silyl group with the fluorinated sol-gel polymer to form a nonlinear optical fluorinated sol-gel polymer.

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